



PATENT  
Attorney Docket No. EXT-072C2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Boles *et al.*  
SERIAL NO.: 10/721,157 GROUP NO.: Not Yet Assigned  
FILING DATE: November 25, 2003 EXAMINER: Not Yet Assigned  
TITLE: Detection of Non-Viral Organisms with SRP RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. §1.97 and §1.98, Applicants hereby make of record the patents, published patent applications, and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent and Trademark Office's partial waiver of the requirement under 37 C.F.R. §1.98(a)(2)(i), only copies of foreign patent documents and non-patent publications are enclosed. Also, in accordance with the provisions of 37 C.F.R. §1.98(d), copies of references B1 and C1 - C12 are not enclosed, as these references were previously cited by or submitted to the U.S. Patent and Trademark Office in prior U.S. Patent Application Serial Nos. 09/336,609 and 10/024,944, filed June 18, 1999, and December 19, 2001, respectively, that are relied on in the instant application for an earlier effective filing date under 35 U.S.C. §120.

**REMARKS**

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**

- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

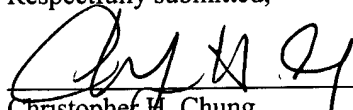
It is respectfully requested that each of the patents, published patent applications, and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

#### STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [**check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required**]:

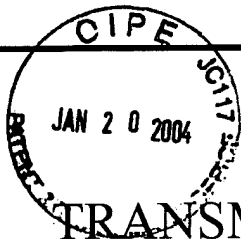
- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

  
\_\_\_\_\_  
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Attorney for the Applicant(s)  
Testa, Hurwitz, & Thibault, LLP  
High Street Tower  
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Date: January 15, 2004  
Reg. No.: 50,351

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# TRANSMITTAL FORM

Application Serial Number	10/721,157
Filing Date	November 25, 2003
First Named Inventor	Boles
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket No.	EXT-072C2
Patent No.	Not Yet Assigned
Issue Date	Not Yet Assigned

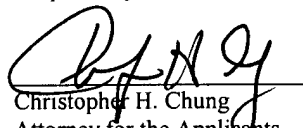
## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences
<input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____]	<input type="checkbox"/> Formal Drawing(s)	<input type="checkbox"/> Appeal Brief (in triplicate)
<input type="checkbox"/> Petition for Extension of Time	<input type="checkbox"/> Request For Continued Examination (RCE) Transmittal	<input type="checkbox"/> Status Inquiry
<input checked="" type="checkbox"/> Information Disclosure Statement (2 pgs.) <input checked="" type="checkbox"/> Form PTO-1449 (9 pgs.) <input checked="" type="checkbox"/> Copies of IDS Citations (B2-B29; C13-C64)	<input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)	<input checked="" type="checkbox"/> Return Receipt Postcard
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 (1 pg.)
<input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application	<input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8
	<input type="checkbox"/> Small Entity Statement	<input type="checkbox"/> Additional Enclosure(s) (please identify below)
	<input type="checkbox"/> CD(s) for large table or computer program	
	<input type="checkbox"/> Amendment After Allowance	
	<input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	

## CORRESPONDENCE ADDRESS

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## SIGNATURE BLOCK

Respectfully submitted,  
  
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Tel. No.: (617) 310-8198  
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TITLE: Detection of Non-Viral Organisms with SRP RNA

**CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8**

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 15th day of January, 2004.


  
Jennifer L. Cioffi

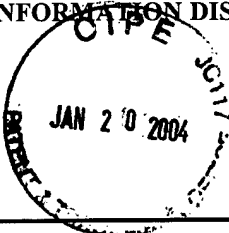
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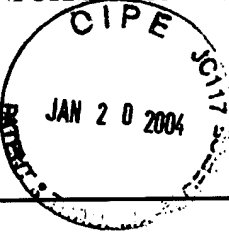
Sir:

Submitted herewith are the following:

Transmittal Form (1 page),  
Information Disclosure Statement (2 pages),  
Form PTO-1449 (9 pages),  
Copies of References Cited (B2-B29, and C13-C64),  
Return Receipt Postcard, and  
Certificate of First Class Mailing (1 page).

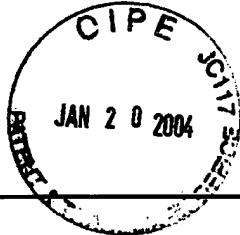
<b>FORM PTO - 1449</b> <b>INFORMATION DISCLOSURE STATEMENT</b> 				<b>ATTORNEY DOCKET NO.:</b> EXT-072C2 <b>APPLICANT(S):</b> Boles et al. <b>SERIAL NO.:</b> 10/721,157 <b>FILING DATE:</b> November 25, 2003 <b>GROUP:</b> Not Yet Assigned			
<b>U.S. PATENT DOCUMENTS</b>							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	4,851,330	07/25/89	Kohne			
	A2	4,868,105	09/19/89	Urdea et al.			
	A3	5,216,143	06/01/93	Hogan et al.			
	A4	5,237,016	08/17/93	Ghosh et al.			
	A5	5,288,611	02/22/94	Kohne			
	A6	5,478,893	12/26/95	Ghosh			
	A7	5,541,308	07/30/96	Hogan et al.			
	A8	5,547,842	8/20/96	Hogan et al.			
	A9	5,567,587	10/22/96	Kohne			
	A10	5,593,841	1/14/97	Hogan et al.			
	A11	5,595,874	01/21/97	Hogan et al.			
	A12	5,601,984	2/11/97	Kohne			
	A13	5,674,684	10/07/97	Hogan et al.			
	A14	5,677,127	10/14/97	Hogan et al.			
	A15	5,677,128	10/14/97	Hogan et al.			
	A16	5,677,129	10/14/97	Hogan et al.			
	A17	5,679,520	10/21/97	Hogan et al.			
	A18	5,681,698	10/28/97	Hogan et al.			
	A19	5,683,872	11/4/97	Rudert et al.			
	A20	5,683,876	11/4/97	Hogan			
	A21	5,688,645	11/18/97	Kohne			
	A22	5,691,149	11/25/97	Hogan et al.			
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			

<b>FORM PTO - 1449</b> <b>INFORMATION DISCLOSURE STATEMENT</b>				ATTORNEY DOCKET NO.: EXT-072C2  APPLICANT(S): Boles et al.  SERIAL NO.: 10/721,157  FILING DATE: November 25, 2003  GROUP: Not Yet Assigned			
 <b>U.S. PATENT DOCUMENTS</b>							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A23	5,693,468	12/02/97	Hogan et al.			
	A24	5,693,469	12/02/97	Hogan			
	A25	5,714,321	02/03/98	Hogan			
	A26	5,714,324	02/03/98	Kohne			
	A27	5,871,923	02/16/99	Moehle			
	A28	4,034,428	07/23/91	Hoffman et al.			
	A29	4,766,062	08/23/88	Diamond et al.			
	A30	4,766,064	08/23/88	Williams et al.			
	A31	4,829,098	05/09/89	Hoffman et al.			
	A32	5,006,473	4/9/91	Bouma et al.			
	A33	5,176,966	01/05/93	Epp et al.			
	A34	5,215,882	6/1/93	Bahl et al.			
	A35	5,310,650	05/10/94	McMahon et al.			
	A36	5,362,859	11/08/94	Zale			
	A37	5,478,893	12/26/95	Ghosh			
	A38	5,482,836	01/09/96	Cantor et al.			
	A39	5,482,863	01/09/96	Knobel			
	A40	5,518,900	05/21/96	Nikiforov et al.			
	A41	5,556,598	9/17/96	Raybuck et al.			
	A42	5,560,811	10/1/96	Briggs et al.			
	A43	5,605,662	02/25/97	Heller et al.			
	A44	5,610,287	03/11/97	Nikiforov et al.			
	A45	5,639,603	6/17/97	Dower et al.			
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			

<b>FORM PTO - 1449</b> <b>INFORMATION DISCLOSURE STATEMENT</b> 				<b>ATTORNEY DOCKET NO.:</b> EXT-072C2  <b>APPLICANT(S):</b> Boles et al.  <b>SERIAL NO.:</b> 10/721,157  <b>FILING DATE:</b> November 25, 2003  <b>GROUP:</b> Not Yet Assigned			
<b>U.S. PATENT DOCUMENTS</b>							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A46	5,641,658	6/24/97	Adams et al.			
	A47	5,679,524	10/21/97	Nikiforov et al.			
	A48	5,679,773	10/21/97	Holmes			
	A49	5,723,344	3/3/98	Mabilat et al.			
	A50	5,741,639	04/21/98	Ensing et al.			
	A51	5,747,248	5/5/98	Collins			
	A52	5,756,291	5/26/98	Griffin et al.			
	A53	5,762,876	06/09/98	Lincoln et al.			
	A54	5,932,711	08/03/99	Boles et al.			
	A55	6,027,890	2/22/00	Ness et al.			
	A56	6,129,828	10/10/00	Sheldon et al.			
	A57	6,180,770	01/30/01	Boles et al.			
	A58	6,214,187	04/10/01	Hammond et al.			
	A59	6,238,927	5/29/01	Abrams et al.			
	A60	6,251,660	6/26/01	Muir et al.			
	A61	2002/0090641	7/11/02	Yasuda et al.			
	A62	2002/0119480	8/29/02	Weir et al.			
	A63	2002/0123060	9/05/02	Boles et al.			
	A64	2002/0197614	12/26/02	Weir et al.			
	A65	2003/0138774	7/24/03	Jones et al.			
	A66	2003/0170635	9/11/03	Hammond et al.			
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			

FORM PTO - 1449

## INFORMATION DISCLOSURE STATEMENT



ATTORNEY DOCKET NO.: EXT-072C2

APPLICANT(S): Boles et al.

SERIAL NO.: 10/721,157

FILING DATE: November 25, 2003

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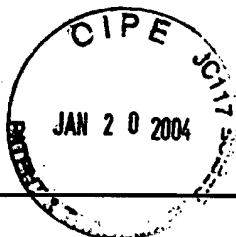
## FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B1	JP H3 [1991]- 47097(A)	02/28/91	JP					
	B2	EP 0 671 626 A1	9/13/95	EP					
	B3	EP 0 703 296 A1	3/27/96	EP					
	B4	WO 90/07582	7/12/90	PCT					
	B5	WO 91/08307	6/13/91	PCT					
	B6	WO 92/15712	9/17/92	PCT					
	B7	WO 94/01446	1/20/94	PCT					
	B8	WO 94/06937	3/31/94	PCT					
	B9	WO 94/16108	7/21/94	PCT					
	B10	WO 94/20831	9/15/94	PCT					
	B11	WO 97/27327	7/31/97	PCT					
	B12	WO 97/31256	8/28/97	PCT					
	B13	WO 97/35033	9/25/97	PCT					
	B14	WO 97/41256	11/6/97	PCT					
	B15	WO 97/45554	12/4/97	PCT					
	B16	WO 97/45721	12/4/97	PCT					
	B17	WO 98/39351	11/09/98	PCT					
	B18	WO 98/51823	11/19/98	PCT					
	B19	WO 99/26724	6/3/99	PCT					
	B20	WO 99/30145	6/17/99	PCT					
	B21	WO 99/45374	9/10/99	PCT					
	B22	WO 99/66078	12/23/99	PCT					
EXAMINER					DATE CONSIDERED				



FORM PTO - 1449

## INFORMATION DISCLOSURE STATEMENT



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APPLICANT(S): Boles et al.

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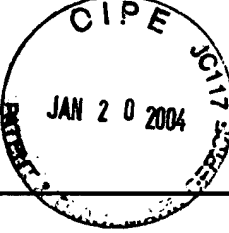
GROUP: Not Yet Assigned

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B23	WO 99/66079	12/23/99	PCT					
	B24	WO 00/20643	4/13/00	PCT					
	B25	WO 00/50644	8/31/00	PCT					
	B26	WO 00/50870	8/31/00	PCT					
	B27	WO 00/60118	10/12/00	PCT					
	B28	WO 00/60120	10/12/00	PCT					
	B29	WO 01/53817	7/26/01	PCT					

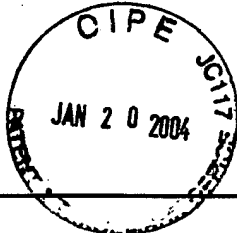
## OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C1	Brown <i>et al.</i> , "Genetic Selection and DNA Sequences of 4.5S RNA Homologs," 1717(12): 6517-6520 (1989).							
	C2	Buchardt <i>et al.</i> , "Peptide nucleic acids and their potential applications in biotechnology," <u>Trends in Biotechnology</u> , 11(9):384-6 (1993).							
	C3	Griffin <i>et al.</i> , "Studies and Sequences of Escherichia Coli 4.5S RNA," <u>Journal of Biological Chemistry</u> , 250(14):5426-5437 (1975).							
	C4	Hsu <i>et al.</i> , "Cloning and sequence analysis of the Escherichia coli 4.5S RNA gene," <u>J Mol. Biol.</u> 178(3):509-31 (1984).							
	C5	Kenny <i>et al.</i> , "Mutation Typing Using Electrophoresis and Gel-Immobilized Acrydite™ Probes," <u>Bio Techniques</u> , 25(3):516-521 (1998).							
	C6	Larsen <i>et al.</i> , "SRP-RNA Sequence Alignment and Secondary Structure," <u>Nucleic Acids Research</u> , 19(2):209-215 (1991).							
	C7	Michaeli <i>et al.</i> , "The 7SL RNA homologue of <i>Trypanosoma brucei</i> is closely related to mammalian 7SL RNA," <u>Molecular and Biochemical Parasitology</u> , 51:55-64 (1992).							
	C8	Nakamura <i>et al.</i> , "Conserved Residues and Secondary Structure Found in Small Cytoplasmic RNAs from Thirteen Bacillus Species," <u>Nucleic Acids Research</u> , 20(19):5227-5228 (1992).							
	C9	Nakamura <i>et al.</i> , "Small Cytoplasmic RNA of Bacillus Brevis: Transcriptional and Phylogenetic Analysis," <u>Microbiology</u> , 140:493-498 (1994).							
EXAMINER					DATE CONSIDERED				

<b>FORM PTO - 1449</b> <b>INFORMATION DISCLOSURE STATEMENT</b> 		ATTORNEY DOCKET NO.: EXT-072C2 APPLICANT(S): Boles et al. SERIAL NO.: 10/721,157 FILING DATE: November 25, 2003 GROUP: Not Yet Assigned	
OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	C10	Poritz <i>et al.</i> , "An E. coli Ribonucleoprotein Containing 4.5S RNA Resembles Mammalian Signal Recognition Particles," <u>Science</u> , 250:1111-1117 (1990).	
	C11	Samuelsson, "A Mycoplasma protein homologous to mammalian SRP54 recognizes a highly conserved domain or SRP RNA," <u>Nucleic Acids Research</u> , 20(21):5763-5770 (1992).	
	C12	Zwieb <i>et al.</i> , "SRPDB (Signal Recognition Particle Database)," <u>Nucleic Acids Research</u> , 28(1):171-172 (2000).	
	C13	Baba <i>et al.</i> , "Base-specific separation of oligodeoxynucleotides by capillary affinity gel electrophoresis," <u>Electrophoresis</u> , 19:433-438 (1998).	
	C14	Baba <i>et al.</i> , "Specific Base Recognition of Oligodeoxynucleotides by Capillary Affinity Gel Electrophoresis Using Polyacrylamide-Poly(9-vinyladenine) Conjugated Gel," <u>Anal. Chem.</u> , 64:1920-1925 (1992).	
	C15	Bartel <i>et al.</i> , "HIV-1 Rev Regulation Involves Recognition of Non-Watson-Crick Base Pairs in Viral RNA," <u>Cell</u> , 67:529-536 (1991).	
	C16	Biagioni <i>et al.</i> , "A New method for the Preparation of DNA-Cellulose," <u>Analytical Biochemistry</u> , 89: 616-619 (Academic Press, Inc.) (1978).	
	C17	Blajchman <i>et al.</i> , "Bacteria in the Blood Supply: An Overlooked Issue in Transfusion Medicine," <u>Blood Safety: Current Challenges</u> , 8:213-228 (1992).	
	C18	Bock <i>et al.</i> , "Selection of Single-Stranded DNA Molecules that Bind and Inhibit Human Thrombin," <u>Nature</u> , 355:564-566 (1992).	
	C19	Botchkarev <i>et al.</i> , "Neurotrophin-3 Involvement in the Regulation of Hair Follicle Morphogenesis," <u>J. Inv. Dermatology</u> , 111(3):279-285 (1998).	
	C20	Brecher <i>et al.</i> , "The use of a chemiluminescence-linked universal bacterial ribosomal RNA gene probe and blood gas analysis for the rapid detection of bacterial contamination in white cell-reduced and non-reduced platelets," <u>Transfusion</u> , 33(6):450-457 (1993).	
	C21	Brecher <i>et al.</i> , "Platelet bacterial contamination and the use of a chemiluminescence-linked universal bacterial ribosomal RNA gene probe," <u>Transfusion</u> , 34(9):750-755 (1994).	
	C22	Defrancesco, "A Captivating Technology," <u>The Scientist</u> , 13(5):16 (1999).	
	C23	Ellington <i>et al.</i> , "In Vitro Selection of RNA Molecules that Bind and Inhibit Human Thrombin," <u>Nature</u> , 346:818-822 (1990).	
EXAMINER		DATE CONSIDERED	

<b>FORM PTO - 1449</b> <b>INFORMATION DISCLOSURE</b> <b>STATEMENT</b>		ATTORNEY DOCKET NO.: EXT-072C2  APPLICANT(S): Boles et al.  SERIAL NO.: 10/721,157  FILING DATE: November 25, 2003  GROUP: Not Yet Assigned	
OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	C24	Famulok, "Molecular Recognition of Amino Acids by RNA-Aptamers: An L-Citrulline Binding RNA Motif and Its Evolution into an L-Arginine Binder," <u>J. Am. Chem. Soc.</u> , 116:1698-1706 (1994).	
	C25	Forbes <i>et al.</i> , "Processing Specimens for Bacteria," <u>Bacteriology</u> , 21:265-281.	
	C26	Freier <i>et al.</i> , "The ups and downs of nucleic acid duplex stability: structure-stability studies on chemically-modified DNA:RNA duplexes," <u>Nucleic Acids Research</u> , 25(22):4429-4443 (1997).	
	C27	Giver <i>et al.</i> , "Selection and Design of High-Affinity RNA Ligands for HIV-1 Rev," <u>Gene</u> , 137:19-24 (1993).	
	C28	Igloi, "Variability in the stability of DNA-peptide nucleic acid (PNA) single-base mismatched duplexes: Real-time hybridization during affinity electrophoresis in PNA-containing gels," <u>Proc. Natl. Acad. SCI. USA</u> , 95:8562-8567 (1998).	
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